WEED ABSTRACTS

Volume 24

Prepared by

ARC

Weed Research Organization, Oxford

1975

ISSN 0043-1729

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published by

Commonwealth Agricultural Bureaux,
Farnham House, Farnham Royal,
SLOUGH SL2 3BN, UK.

printed by

The Cambrian News Ltd., Queen Street, Aberystwyth, Dyfed, UK

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WEED ABSTRACTS

COMPILED FROM WORLD LITERATURE BY THE
WEED RESEARCH ORGANIZATION OF THE AGRICULTURAL RESEARCH COUNCIL
UNDER THE DIRECTION OF J.D. FRYER

The journal is published monthly by the Commonwealth Agricultural Bureaux as one of a series of abstract journals covering the major branches of agricultural science.

The object of *Weed Abstracts* is to provide factual summaries and reports of the world scientific and technical literature on weeds, weed control and allied subjects as a means of enabling readers to keep abreast of current developments and to act as a concise source of reference.

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Information Department
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Central Sales Branch,
Commonwealth Agricultural Bureaux,
Farnham Royal, Slough, SL2 3BN, UK

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Abbreviations

A list of abbreviations and common names of herbicides is given at the back of the Journal

abs.	abstract	hp	horsepower	ppm.	parts per million
a.e.	acid equivalent	in	inch	ppmv.	parts per million by volume
a.i.	active ingredient	in^2	square inch	ppmw.	parts per million by weight
b.p.	boiling point	i.r.	infra-red	pre-em.	pre-emergence
bu	bushel	kcal	kilocalorie	p.t.o.	power take off
°C	degrees Celsius (formerly Centigrade)	kg	kilogramme	pt	pint
conc.	concentrated	LD_{50}	median lethal dose	ref.	references
concn.	concentration	lb	pound	r.h.	relative humidity
cv.	cultivar(s)	lbf/in^2	pounds-force per square inch	s	second
cwt	hundredweight	M	molar concentration	sp.	species
d.b.h.	diameter at breast height	m	metre	spp.	species (plural)
diam.	diameter	m-	milli-(x 10^{-3})	ssp.	subspecies
d.m.	dry matter	μ-	micro (x 10^{-6})	t	tonne (Mg)
dz	Doppelzentner (= 100 kg	μm	micron	temp.	temperature
e.c.	emulsifiable concentrate	m^2	square metre	t.l.c.	thin-layer chromatography
°F	degrees Fahrenheit	m.c.	moisture content	u.l.v.	ultra low volume
ft	foot	mg	milligramme	u.v.	ultra-violet
ft^2	square foot	min	minute	var.	*varietas*
g	gramme	ml	millilitre	vol.	volume
gal	gallon	mm	millimetre	wt	weight
g.l.c.	gas-liquid chromatography	m.p.	melting point	w.p.	wettable powder
h	hour	N	normal concentration	yd	yard
ha	hectare	n	nano-(x 10^{-9})	>	more than
hkg	hectokilogramme	o.m.	organic matter	<	less than
		oz	ounce	±	with or without
		p.	page	%	percent(age)
		post-em.	post-emergence		
		pp.	pages		

Languages

An initial capital denotes the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	Fi	Finnish	It	Italian	Ru	Russian
Bg	Bulgarian	Nl	Flemish	Ja	Japanese	Sh	Serbo-Croat
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Da	Danish	De	German	Pl	Polish	Es	Spanish
Nl	Dutch	He	Hebrew	Pt	Portuguese	Sv	Swedish
En	English	Hu	Hungarian	Ro	Romanian	Tr	Turkish

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Unless otherwise stated, rates of application for growth-regulator herbicides such as 2,4-D, MCPA, fenoprop, dalapon, the benzoics, etc. are given as the acid equivalent, Rates for other herbicides such as the ureas, carbamates, triazines, etc. are given as the active ingredient. Rates for the bipyridyls refer to the cation, only.

ist of common names and abbreviations used for herbicides and plant growth regulators in *Weed bstracts*

n asterisk (*) signifies approval by the British Standards Institution (BSI)
dagger (†) signifies approval by the Weed Science Society of America (WSSA)
double dagger (‡) signifies approval by the International Organization for Standardization (I.S.O.)
here the name approved by the WSSA or the I.S.O. differs from that approved by the BSI, the WSSA or I.S.O. name is given in brackets
pposite the chemical name, with the appropriate symbol attached.

etochlor*†	α-chloro-*N*-ethoxymethyl-6-ethyl-*o*-acetotoluidide	
rolein	acrylaldehyde	
achlor*†	α-chloro-2,6-diethyl-*N*-(methoxymethyl)acetanilide	
idochlor*‡	*N,N*-diallylchloroacetamide	(CDAA†)
netryne*	4-ethylamino-6-isopropylamino-2-methylthio-1,3,5-triazine	(ametryn†)
ninotriazole	3-amino-1,2,4-triazole	(amitrole†‡)
MS†	ammonium sulphamate	
cymidol*	α-cyclopropyl-4-methoxy-α-pyrimidin-5-ylbenzylalcohol	
isuron*	*N'*-(3,4-dichlorophenyl)-*N'*-(4-methoxybenzoyl)-*N,N*-dimethylurea	
ulam*†‡	methyl (4-aminobenzenesulphonyl)carbamate	
raton *†‡	4-ethylamino-6-isopropylamino-2-methoxy-1,3,5-triazine	
razine*†‡	2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine	
iprotryne*‡	2-azido-4-isopropylamino-6-methylthio-1,3,5-triazine	
rban*†‡	4-chlorobut-2-ynyl *N*-(3-chlorophenyl)carbamate	
nazolin *‡	4-chloro-2-oxobenzothiazolin-3-ylacetic acid	
nfluralin *‡	*N*-butyl-*N*-ethyl-2,6-dinitro-4-trifluoromethylaniline	(benefin†)
nsulide*†‡	*N*-[2-(*O,O*-di-isopropyldithiophosphoryl)ethyl] benzene sulphonamide	
ntazone*	3-isopropyl-2,1,3-benzothiadiazin-4-one 2,2-dioxide	(bentazon†)
nthiocarb†	*S*-(4-chlorobenzyl)-*N,N*-diethylthiolcarbamate	
nzadox*†	benzamido-oxyacetic acid	
nzoylprop-ethyl*	ethyl *N*-benzoyl-*N*-(3,4-dichlorophenyl)-2-aminopropionate	
nzthiazuron*‡	*N*-(benzothiazol-2-yl)-*N*-methylurea	
enox†	methyl 5-(2,4-dichlorphenoxy)-2-nitrobenzoate	
omacil*†‡	5-bromo-6-methyl-3-(1-methyl-n-propyl) uracil	
omobonil*	2,6-dibromo-4-cyanophenyl tetrahydrofurfuryl carbonate	
omofenoxim*‡	3,5-dibromo-4-hydroxybenzaldehyde 2,4-dinitrophenyloxime	
omoxynil*†‡	3,5-dibromo-4-hydroxybenzonitrile	
ompyrazone*	5-amino-4-bromo-2-phenylpyridazin-3-one	(brompyrazon†)
tachlor*†‡	*N*-(butoxymethyl)-α-chloro-2,6-diethylacetanilide	
tam†	*N*-benzyl-*N*-isopropyl-2,2-dimethylpropionamide	
thiuron*	*N'*-(5-butylsulphonyl-1,3,4-thiadiazol-2-yl)-*N,N'*-dimethylurea	
tralin*†	*N*-s-butyl-4-t-butyl-2,6-dinitroaniline	
turon*†‡	*N*-(4-chlorophenyl)-*N*-(1-methylprop-2-ynyl)-*N*-methylurea	
tylate*†	*S*-ethyl *N,N*-di-isobutyl(thiocarbamate)	
basulam*	methyl *N*-(4-[methoxycarbamoyl] benzenesulphonyl)carbamate	
betamide*†‡	D-*N*-ethyl-2-(phenylcarbamoyloxy) propionamide	
DEA†	*N,N*-diethylchloroacetamide	
loramben*†‡	3-amino-2,5-dichlorobenzoic acid	
loranocryl*‡	*N*-(3,4-dichlorophenyl) methacrylamide	(dicryl†)
lorazine*†	2-chloro-4,6-bisdiethylamino-1,3,5-triazine	
lorbromuron*†‡	*N'*-(4-bromo-3-chlorophenyl)-*N*-methoxy-*N*-methylurea	
lorbufam*‡	1-methylprop-2-ynyl *N*-(3-chlorophenyl)carbamate	
lordane*†	1,2,4,5,6,7,10,10-octachloro-4,7,8,9-tetrahydro-4,7-methyleneindane	
lorfenac*‡	2,3,6-trichlorophenylacetic acid	(fenac†)
lorfenprop-methyl*‡	methyl 2-chloro-3-(4-chlorophenyl)propionate	
lorflurazole*‡	4,5-dichloro-2-trifluoromethylbenzimidazole	
lorflurecol*‡	2-chloro-9-hydroxyfluorene-9-carboxylic acid	
lorfluren*	2-chlorofluorene-9-carboxylic acid	
lormequat*‡	2-chloroethyl-trimethyl-ammonium chloride	(CCC†)
lornitrofen*	4-nitrophenyl 2,4,6-trichlorophenyl ether	
loropon*‡	2,2,3-trichloropropionic acid	
loroxuron*†‡	*N*-4-(4-chlorophenoxy)phenyl-*N,N*-dimethylurea	
loroxynil*‡	3,5-dichloro-4-hydroxybenzonitrile	
lorphonium*	tributyl-2,4-dichlorobenzylphosphonium	
lorprocarb*	3-methoxycarbonylaminophenyl 1-chloromethylpropylcarbamate	
lorpropham*†‡	isopropyl *N*-(3-chlorophenyl)carbamate	
lorthal-dimethyl*‡	2,3,5,6-tetrachloroterephthalic acid dimethyl ester	(DCPA†)
lorthiamid‡	2,6-dichlorothiobenzamide	
lortoluron*	*N'*-(3-chloro-4-methylphenyl)-*N,N*-dimethylurea	
anilide†	2,5-dimethyl-1-pyrrolidine-carboxanilide	
CPA*†‡	4-chlorophenoxyacetic acid	
anatryn*	4-(1-cyano-1-methylethylamino)-6-ethylamino-2-methylthio-1,3,5-triazine	
anazine*†	2-chloro-4-(1-cyano-1-methylethylamino)-6-ethylamino-1,3,5-triazine	
cloate*†	*N'*-cyclohexyl-*N*-ethyl-*S*-ethyl(thiocarbamate)	
cluron*†‡	*N'*-cyclo-octyl-*N,N*-dimethylurea	
perquat*	1-methyl-4-phenylpyridinium	
prazine*†	2-chloro-4-cyclopropylamino-6-isopropylamino-1,3,5-triazine	
prazole*†‡	*N*-[5-(2-chloro-1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl] cyclopropanecarboxamide	
promid*†‡	3,4-dichlorocyclopropanecarboxanilide	
-D*†‡	2,4-dichlorophenoxyacetic acid	
apon*†‡	2,2-dichloropropionic acid	
minozide*	*N*-dimethylaminosuccinamic acid	
zomet*†‡	3,4,5,6-tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione	
-DB*†	4-(2,4-dichlorophenoxy)butyric acid	
U†	dichloral urea	

delachlor*†	α-chloro-*N*-(isobutoxymethyl)-2,6-acetoxylidide	
2,4-DEP†	tris-(2,4-dichlorophenoxyethyl)phosphite	
2,4-DES	2-(2,4-dichlorophenoxy)ethyl hydrogen sulphate	(sesone†, disul‡)
desmedipham*†	3-(ethoxycarbonylamino)phenyl *N*-phenyl-carbamate	
desmetryne*	4-isopropylamino-6-methylamino-2-methylthio-1,3,5-triazine	(desmetryn†‡)
di-allate*‡	*S*-2,3-dichloroallyl *N,N*-di-isopropyl(thiocarbamate)	(diallate†)
dicamba*†‡	3,6-dichloro-2-methoxybenzoic acid	
dichlobenil*†‡	2,6-dichlorobenzonitrile	
dichlone*†‡	2,3-dichloro-1,4-naphthaquinone	
dichlorflurenol*	2,7-dichloro-9-hydroxyfluorene-9-carboxylic acid	
dichlormate*†	3,4-dichlorobenzyl *N*-methylcarbamate	
dichlorprop*†‡	(±) 2-(2,4-dichlorophenoxy)propionic acid	
diethamquat*	1,1′-di(diethylcarbamoylmethyl)-4,4′-bipyridyl-1,1′-diylium	
difenoxuron*†‡	*N*′-4-(4-methoxyphenoxy)phenyl-*N,N*-dimethylurea	
difenzoquat*†	1,2-dimethyl-3,5-diphenyl-pyrazolium	
dikegulac*	2,3:4,6-di-*O*-isopropylidene-α-L-xylo-2-hexulofuranosonic acid	
dimethachlor*	α-chloro-*N*-(2-methoxyethyl)-2′,6′-acetoxylidide	
dimethametryn*	2-(1,2-dimethylpropylamino)-4-ethylamino-6-methylthio-1,3,5-triazine	
dimidazon*	4,5-dimethoxy-2-phenylpyridazin-3(2*H*)-one	
dimexan*	di(methoxythiocarbonyl)disulphide	(dimexano‡)
dinitramine*†	N^1,N^1-diethyl-2,6-dinitro-4-trifluoromethyl-*m*-phenylenediamine	
dinofenate*	2,4-dinitrophenyl 2,4-dinitro-6-*s*-butylphenyl carbonate	
dinoprop*‡	2-isopropyl-3-methyl-4,6-dinitrophenol	
dinosam*†	2-(1-methyl-n-butyl)-4,6-dinitrophenol	
dinoseb*†‡	2-(1-methylpropyl)-4,6-dinitrophenol	
dinoterb*‡	4,6-dinitro-2-t-butylphenol	
diphenamid*†‡	*N,N*-dimethyl-αα-diphenylacetamide	
diphenatrile†	diphenylacetonitrile	
dipropalin†	2,6-dinitro-*N,N*-dipropyl-4-methylaniline	
dipropetryn*†	2-ethylthio-4,6-di(isopropylamino)-1,3,5-triazine	
diquat*†‡	9,10-dihydro-8a,10a-diazoniaphenanthrene	
diuron*†‡	*N*′-(3,4-dichlorophenyl)-*N,N*-dimethylurea	
DMPA†	*O*-(2,4-dichlorophenyl) *O*′-methyl *N*-isopropyl phosphoramidothioate	
DNOC*†‡	2-methyl-4,6-dinitrophenol	
DSMA†	disodium methylarsonate	
endothal*	7-oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid	(endothall†, endothal-sodium[=Na salt‡])
EPTC*†‡	*S*-ethyl *N,N*-dipropyl(thiocarbamate)	
erbon†‡	2-(2,4,5-trichlorophenoxy)ethyl 2,2-dichloropropionate	
ethalfluralin*†	*N*-ethyl-*N*-(2-methylallyl)-2,6-dinitro-4-trifluoromethylaniline	
ethiolate*†	*S*-ethyl diethylthiocarbamate	
ethofumesate*	2-ethoxy-2,3-dihydro-3,3-dimethylbenzofuran-5-yl methylsulphonate	
etinofen*‡	2-ethoxymethyl-4,6-dinitrophenol	
EXD†	di(ethoxythiocarbonyl) disulphide	
fenoprop*‡	(±) 2-(2,4,5-trichlorophenoxy)propionic acid	(silvex†)
fenuron*†‡	*N,N*-dimethyl-*N*′-phenylurea	
fenuron-TCA†	*N,N*-dimethyl-*N*′-phenyluronium trichloroacetate	
flamprop-isopropyl*	isopropyl (±)-2-(*N*-benzoyl-3-chloro-4-fluoroanilino)propionate	
flamprop-methyl*	methyl (±)-2-(*N*-benzoyl-3-chloro-4-fluoroanilino)propionate	
fluchloralin*†	*N*-(2-chloroethyl)-2,6-dinitro-*N*-propyl-4-(trifluoromethyl)aniline	
flumezin*‡	2-methyl-4-(3-trifluoromethylphenyl)-tetrahydro-1,2,4-oxadiazine-3,5-dione	
fluometuron*†‡	*N*′-(3-trifluoromethylphenyl)-*N,N*-dimethylurea	
fluoridamid*	3-trifluoromethylsulphonamido-*p*-acetotoluidide	
fluorodifen*‡	4-nitrophenyl 2-nitro-4-trifluoromethylphenyl ether	
fluoronitrofen*	2,4-dichloro-6-fluorophenyl 4-nitrophenyl ether	
flurecol*†	9-hydroxyfluorene-9-carboxylic acid	(flurenol†)
fluromidine*‡	6-chloro-2-trifluoromethyl-3*H*-imidazo[4,5-*b*]pyridine	
GA	gibberellic acid	
glyphosate*†	*N*-(phosphonomethyl)glycine	
haloxydine*	3,5-dichloro-2,6-difluoro-4-hydroxypyridine	
hexaflurate†	potassium hexafluoroarsenate	
IAA	indolylacetic acid	
IBA	indolylbutyric acid	
iodobonil*	allyl 4-cyano-2,6-di-iodophenyl carbonate	
ioxynil*†‡	4-hydroxy-3,5-di-iodobenzonitrile	
ipazine*†‡	2-chloro-4-diethylamino-6-isopropylamino-1,3,5-triazine	
iprymidam*	2-amino-4-chloro-6-isopropylaminopyrimidine	
isocarbamid*	*N*-isobutylimidazolidin-2-one-1-carboxamide	
isocil*†‡	5-bromo-3-isopropyl-6-methyluracil	
isonoruron*	*N*′-[1 or 2-(hexahydro-4,7-methanoindanyl)]-*N,N*-dimethylurea	
isopropalin*†	4-isopropyl-2,6-dinitro-*N,N*-dipropylaniline	
isoproturon*	*N*′-(4-isopropylphenyl)-*N,N*-dimethylurea	
karbutilate*†	*m*-(3,3-dimethylureido)phenyl t-butylcarbamate	
lenacil*†‡	3-cyclohexyl-6,7-dihydro-1*H*-cyclopentapyrimidine-2,4-(3*H*,5*H*)dione	
linuron*†‡	*N*-(3,4-dichlorophenyl)-*N*-methoxy-*N*-methylurea	
MAMA†	monoammonium methylarsonate	
MCPA*†‡	4-chloro-2-methylphenoxyacetic acid	
MCPA-thioethyl*	*S*-ethyl 4-chloro-2-methylphenoxythioacetate	
MCPB*†‡	4-(4-chloro-2-methylphenoxy)butyric acid	
mecoprop*†‡	(±) 2-(4-chloro-2-methylphenoxy)propionic acid	
medinoterb*‡	4,6-dinitro-5-methyl-2-t-butylphenol	
metamitron*	4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4*H*)-one	
mesoprazine*	2-chloro-4-isopropylamino-6-(3-methoxypropylamino)-1,3,5-triazine	
metflurazone	4-chloro-5-(dimethylamino)-2-(3-trifluoromethylphenyl)pyridazin-3(2*H*)-one	
methabenzthiazuron*‡	*N*-(benzothiazol-2-yl)-*N,N*′-dimethylurea	
metham*†	*N*-methyldithiocarbamic acid	(metam-sodium [=Na salt]‡)

thazole*†‡	2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	
thiuron*‡	*N,N*-dimethyl-*N'*-(3-methylphenyl)thiourea	
thometon*‡	2-methoxy-4,6-bis(3-methoxypropylamino)-1,3,5-triazine	
thoprotryne*‡	4-isopropylamino-6-(3-methoxypropylamino)-2-methylthio-1,3,5-triazine	
tobromuron*†‡	*N'*-(4-bromophenyl)-*N*-methoxy-*N*-methylurea	
toxuron*‡	*N'*-(3-chloro-4-methoxyphenyl)-*N,N*-dimethylurea	
tribuzin*†	4-amino-6-t-butyl-3-(methylthio)-1,2,4-triazin-5(4*H*)-one	
soprazine*	2-chloro-4-isopropylamino-6-(3-methoxypropylamino)-1,3,5-triazine	
H†	1,2,3,6-tetrahydro-3,6-dioxopyridazine	
linate†	*S*-ethyl *N,N*-hexamethylene(thiocarbamate)	
nalide*‡	*N*-(4-chlorophenyl)-2,2-dimethylvaleramide	
nolinuron*†‡	*N'*-(4-chlorophenyl)-*N*-methoxy-*N*-methylurea	
nuron*†‡	*N'*-(4-chlorophenyl)-*N,N*-dimethylurea	
nuron-TCA†	*N'*-(4-chlorophenyl)-*N,N*-dimethyluronium trichloroacetate	
rfamquat*‡	1,1'-bis(3,5-dimethylmorpholinocarbonylmethyl)-4,4'-bipyridylium	
SMA†	monosodium methylarsonate	
AA	1-naphthylacetic acid	
propamide*†	*N,N*-diethyl-2-(α-naphthoxy)propionamide	
ptalam*†‡	*N*-1-naphthylphthalamic acid	
buron*†‡	*N*-butyl-*N'*-(3,4-dichlorophenyl)-*N*-methylurea	
ralin*†	4-(methylsulphonyl)-2,6-dinitro-*N,N*-dipropylaniline	
rofen*†‡	2,4-dichlorophenyl 4-nitrophenyl ether	
rflurazon*†	4-chloro-5-methylamino-2-(3-trifluoromethylphenyl)pyridazin-3-one	
ruron*‡	*N'*-(hexahydro-4,7-methanoindan-5-yl)-*N,N*-dimethylurea	(norea†)
yzalin*†	3,5-dinitro-*N*4*N*4-dipropylsulphanilamide	
adiazon*†	3-(2,4-dichloro-5-isopropoxyphenyl)-5-t-butyl-1,3,4-oxadiazolin-2-one	
apyrazone*	(2-hydroxyethyl)dimethylammonium (4-bromo-2-phenyl-3-pyridazon-5-yl)oxamate	
rafluron*	*N,N*-dimethyl-*N'*-(4-trifluoromethylphenyl)urea	
raquat*†‡	1,1'-dimethyl-4,4'-bipyridylium	
P†	pentachlorophenol	
bulate*†‡	*S*-propyl *N*-butyl-*N*-ethyl(thiocarbamate)	
noxalin†	*N*-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine	
ntanochlor*‡	*N*-(3-chloro-4-methylphenyl)-2-methylpentanamide	(solan†)
fluidone*	4'-(phenylsulphonyl) trifluoromethylsulphono-*o*-toluidide	
nmedipham*†‡	3-(methoxycarbonylamino)phenyl *N*-(3-methylphenyl)carbamate	
nmedipham-ethyl*	3-ethoxycarbonylaminophenyl *N*-(3'-methylphenyl)carbamate	
nobenzuron*	*N'*-benzoyl-*N'*-(3,4-dichlorophenyl)-*N,N*-dimethylurea	
toram*†‡	4-amino-3,5,6-trichloropicolinic acid	
erophos*	*S*-2-methyl-1-piperidylcarbonylmethyl *O,O*-di-n-propyl phosphorodithioate	
ocyazine*	2-chloro-4-(1-cyano-1-methylethylamino)-6-cyclopropylamino-1,3,5-triazine	
fluralin*†	*N*-(cyclopropylmethyl)-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline	
meton*†‡	4,6-bisisopropylamino-2-methoxy-1,3,5-triazine	
metryne*	4,6-bisisopropylamino-2-methylthio-1,3,5-triazine	(prometryn†‡)
pachlor*†‡	α-chloro-*N*-isopropylacetanilide	
panil*†‡	*N*-(3,4-dichlorophenyl) propionamide	
pazine*†‡	2-chloro-4,6-bisisopropylamino-1,3,5-triazine	
pham*†‡	isopropyl *N*-phenylcarbamate	
pyzamide*‡	3,5-dichloro-*N*-(1,1-dimethylpropynyl)benzamide	(pronamide†)
sulfalin*†	*N*-(4-dipropylamino-3,5-dinitrophenylsulphonyl)-*S,S*-dimethylsulphimide	
xan*	isopropyl xanthic acid	(IPX†, proxan-sodium [=Na salt]‡)
nachlor*†	2-chloro-*N*-(1-methyl-2-propynyl)acetanilide	
danon*	(±)-hexahydro-4-hydroxy-3,6-dioxopyridazin-4-ylacetic acid	
razone*	5-amino-4-chloro-2-phenylpyridazin-3(2*H*)-one	(pyrazon†)
riclor†	2,3,5-trichloro-4-pyridinol	
inonamid*	3-chloro-2-dichloroacetamido-1,4-naphthaquinone	
buthylazine*	2-chloro-4-ethylamino-6-s-butylamino-1,3,5-triazine	
bumeton*	4-ethylamino-2-methoxy-6-s-butylamino-1,3,5-triazine	
uron*†‡	*N*-(2-methylcyclohexyl)-*N*-phenylurea	
nazine*†‡	2-chloro-4,6-bisethylamino-1,3,5-triazine	
neton*†	4,6-bisethylamino-2-methoxy-1,3,5-triazine	
netryne*	4,6-bisethylamino-2-methylthio-1,3,5-triazine	(simetryn†‡)
A	sodium monochloroacetate	
llallate*‡	2-chloroallyl *N,N*-diethyldithiocarbamate	(CDEC†)
ep†	methyl *N*-(3,4-dichlorophenyl)carbamate	
,5-T*†‡	2,4,5-trichlorophenoxyacetic acid	
,5-TB*‡	4-(2,4,5-trichlorophenoxy)butyric acid	
,6-TBA*†‡	2,3,6-trichlorobenzoic acid	
A*†‡	trichloroacetic acid	(sodium trichloroacetate [=Na salt]‡)
buthiuron*†	*N,N'*-dimethyl-*N*-(5-butyl-1,3,4-thiadiazol-2-yl)urea	
bacil*†	5-chloro-6-methyl-3-butyluracil	
bucarb*	2,6-di-t-butyl-*p*-tolyl *N*-methylcarbamate	(terbutol†)
buchlor*	*N*-butoxymethyl-α-chloro-6-t-butyl-*o*-acetotoluidide	
bumeton*	4-ethylamino-2-methoxy-6-t-butylamino-1,3,5-triazine	
buthylazine*	2-chloro-4-ethylamino-6-t-butylamino-1,3,5-triazine	
butryne*	4-ethylamino-2-methylthio-6-t-butylamino-1,3,5-triazine	(terbutryn†‡)
,5-TES†	2-(2,4,5-trichlorophenoxy)ethyl hydrogen sulphate	
azafluron*	1,3-dimethyl-1-(5-trifluoromethyl 1,3,4-thiadazol-2-yl)urea	
BA	2,3,5-triiodobenzoic acid	
allate*‡	*S*-2,3,3-trichloroallyl *N,N*-di-isopropyl(thiocarbamate)	(triallate†)
camba*†‡	3,5,6-trichloro-2-methoxybenzoic acid	
clopyr*†	3,5,6-trichloro-2-pyridyloxyacetic acid	
etazine*†‡	2-chloro-4-diethylamino-6-ethylamino-1,3,5-triazine	
fluralin*†‡	2,6-dinitro-*N,N*-dipropyl-4-trifluoromethylaniline	
meturon*†	*N'*-(4-chlorophenyl)-*O,N,N*-trimethylisourea	
propindan*	6-isopropyl-1,1,4-trimethyl-5-propionylindane	
rnolate†	*S*-propyl *N,N*-dipropyl(thiocarbamate)	

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 21

Page	*Abstract*	*Line*	
523	3304	9 & 18	For '25-v' read '25 kV'
523	3304	12	After 'from 5 to 50' add 'kV'

Volume 23

25	218	1	For 'Elliott, J. C.' read 'Elliott, J. G.'
59	513	1	For 'HEINISCH, E.' read 'HEINISH, E.'
116	.1046	5	For 'In a directed spray trial' read 'In a trial in which sprays were directed at the crop foliage'
124	1120	1	For 'APPLEBY, A. B.' read 'APPLEBY, A. P.'
143	1306	2	For '**tubers**' read '**tillers**'
191	1732	5	For '1019-1032' read '953-68'
211	1934	1	For 'OLUNGA' read 'OLUNUGA'
251	2327	1	For 'CHAPPEL, W. E.' read 'CHAPPEL, W.'
286	2676	25	For 'AN 58 477' read 'AN 56 477'
312	2873	5,10,12, 13	For 'μm' read 'μM'

Volume 24

17	181	9	Insert 'applied thrice at 1-week intervals' after '10 g/litre'
20	207	12	For '*dimethylurea) and Hoe 2994*' read 'dimethylurea) and Hoe 2994'
20	207	18-19	For '*3-(1,1,2,2-tetrafluoroethoxy)phenylurea) at 0.5-2 kg/ha in cotton, Hoe 2937*' read '3-(1,1,2,2-tetrafluoroethoxy)phenylurea) at 0.5-2kg/ha in cotton, Hoe 2937'
42	401	2	For '**oxidiazon**' read '**oxadiazon**'
51	503	11	Insert 'γ' before '-glutamyl-'
52-3	511	3-5	For '**2-chloro-*o*-tolyloxyacetanilide, allyl 2-chloro-*o*-tolylacetate, ethyl 2-chloro[-*o*-] tolylacetate and sodium 2-chloro-*o*-tolylacetate**' read '**4-chloro-2-methylphenoxyaceto-*o*-chloroanilide, MCPA-allyl, MCPA-ethyl and MCPA-sodium**'
52-3	511	11-12	For 'hydrolyzed to sodium 2-chloro-*o*-tolylacetate[?to the sodium salts]' read 'hydrolyzed to the sodium salt'
92	847	30	For '*hermontheca*' read '*hermonthica*'
110	1011	19	Delete '+' and substitute 'followed after 21 days by'
118	1086	13	For 'dm^3' read 'dm^2'
135	1219	12	For 'the protein content' read 'the percent protein content'
140	1268	7	For '(Eremochloa ophiuroides)' read '(*Eremochloa ophiuroides*)'
144	1298	8	Insert 'activity,' after 'glyphosate'
151	1375	8	Insert 'than those' after 'weight'
207	1865	17	Insert '[? 2.24]' after 'and 2.42'
317	2852	16	Insert after 'de-ethylated' the words 'and also hydrolyzed at the 2-position, so that only 8% of that applied'